

Figure 1. Local Area Network

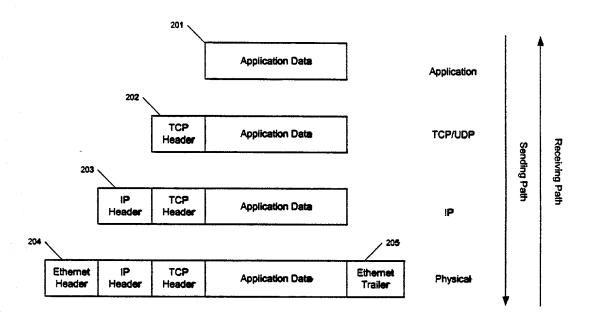


Figure 2. TCP/IP Network Protocol Stack (without SSL)

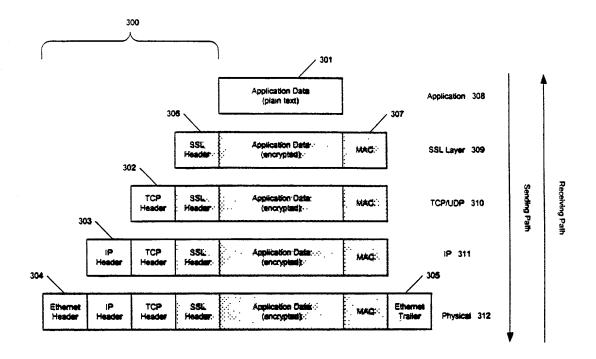


Figure 3. TCP/IP Network Protocol Stack with SSL

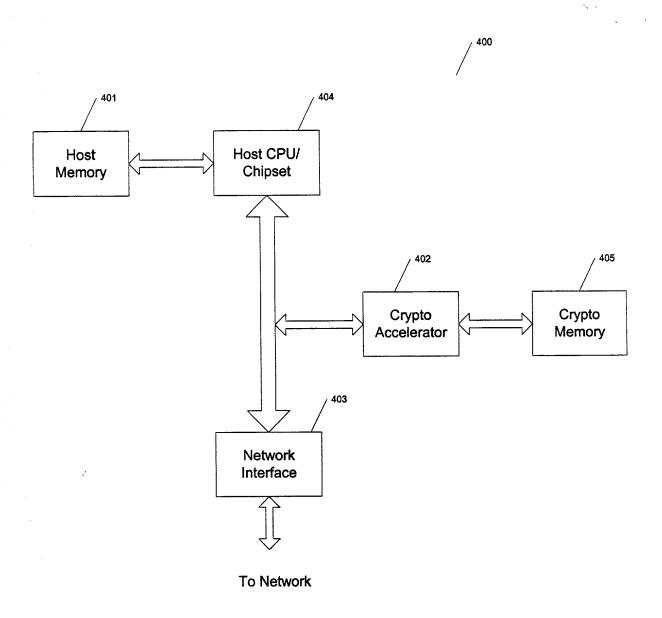
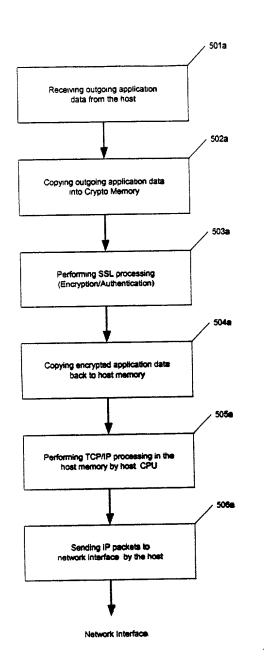


Figure 4. Existing SSL Acceleration Devices



Sending application data to the system 505b Copying application data back to host memory Performing SSL processing (Decryption/Authentication) 503b Copying application data into Crypto Memory 502b Performing TCP/IP processing in the host memory by host CPU 501b Receiving IP Packets from network interface Network Interface

506b

Figure 5a. Outgoing data processing

Figure 5b. Incoming data processing

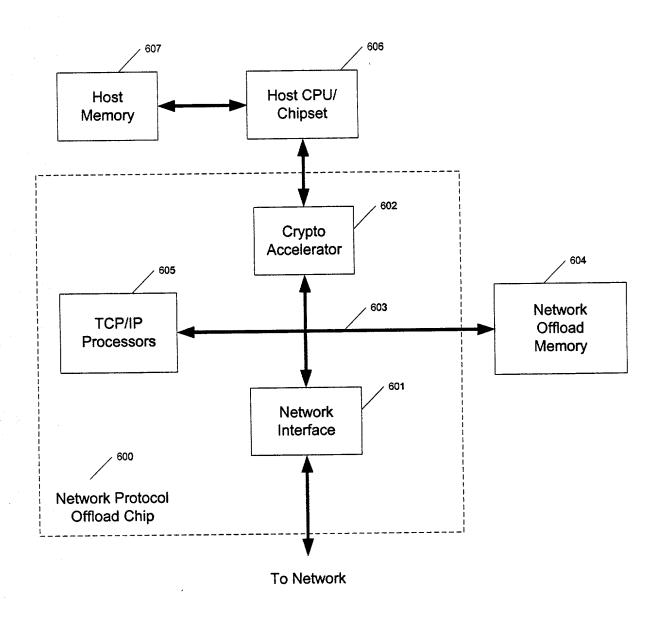


Figure 6. SSL Acceleration Devices

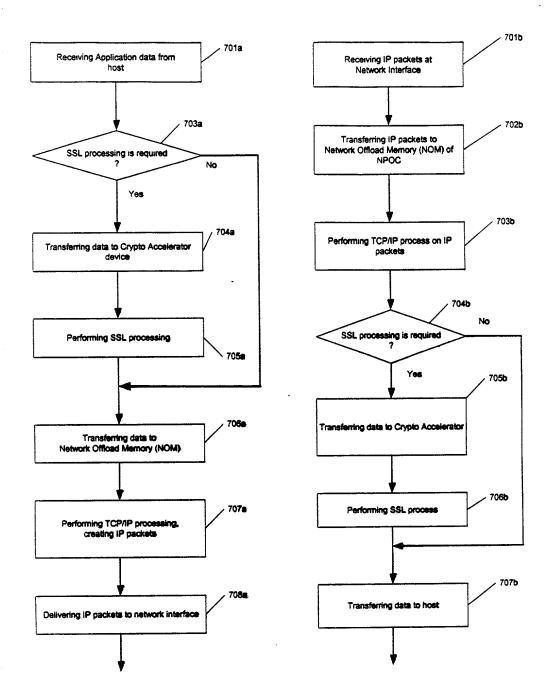


Figure 7a. Outgoing Data Processing

Figure 7b. Incoming Data Process

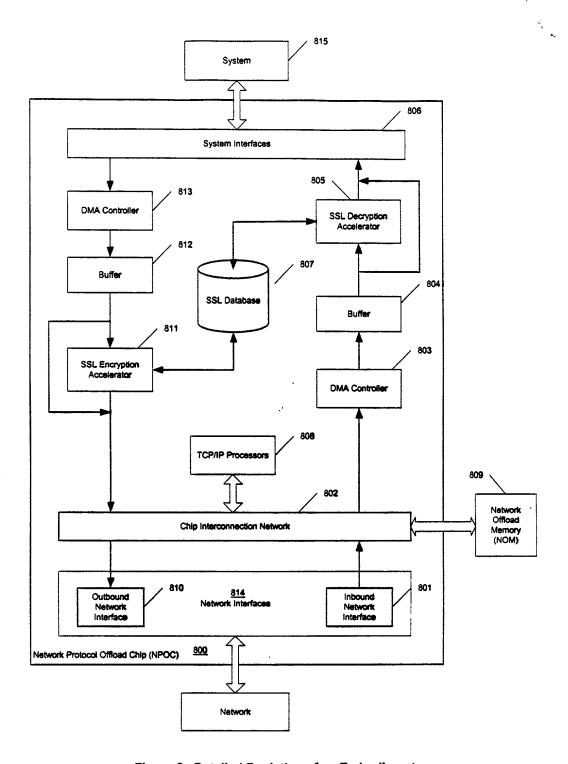


Figure 8. Detailed Depiction of an Embodiment

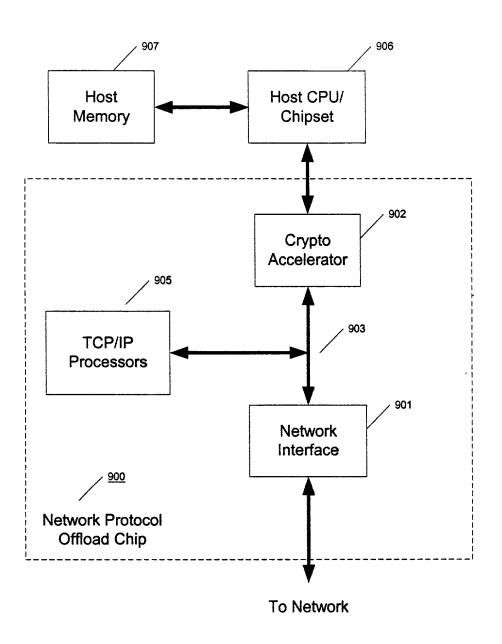


Figure 9. SSL Acceleration Devices

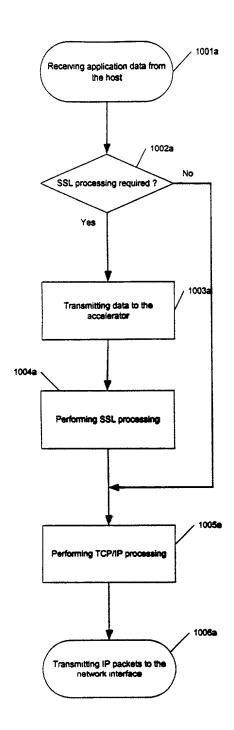


Figure 10a. Outgoing Data Process

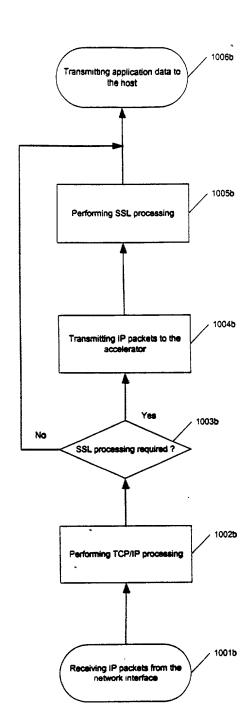


Figure 10b. Incoming Data Process

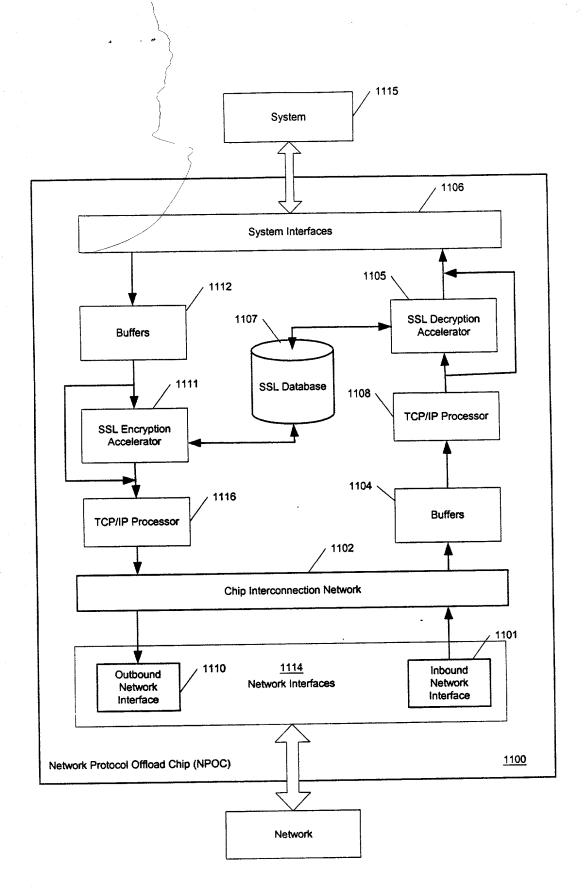


Figure 11. Detailed Depiction of an Embodiment